

<b>BIG CONCEPT:</b> <ul style="list-style-type: none"><li>• magnets exert forces</li><li>• magnetic forces can pass through a variety of materials</li><li>• forces of attraction and repulsion occur between magnets</li></ul>		<b>CONTEXT: MAGNETISM</b>		
<b>KEY UNDERSTANDINGS:</b> <ul style="list-style-type: none"><li>• identify materials that are magnetic</li><li>• magnets exert forces</li><li>• magnets have a North &amp; South Pole</li></ul>				
<b>DRIVING QUESTION:</b> <ul style="list-style-type: none"><li>•</li></ul>				
<b>KEY COMPETENCIES:</b> <b>Thinking:</b> Locating information Sorting & sifting Grouping	<b>Relating to Others:</b> <i>Working in a group</i>	<b>Participating and Contributing:</b> Listening to others Asking questions and responding	<b>Managing Self</b> <i>Active listening skills</i> <i>Time management for independent tasks</i>	<b>Using Language, Symbols &amp; Text:</b> Researching; Using information; Presenting Explanation writing
<b>CURRICULUM INTEGRATION</b> <b>Science</b> - Investigate & describe their ideas about some everyday examples of physical phenomena. L1 - Students can: <ul style="list-style-type: none"><li>• Demonstrate how a magnet can push &amp; pull</li><li>• Sort items into those that are attracted to a magnet &amp; those that are not</li></ul> L2 - Students can: <ul style="list-style-type: none"><li>• Demonstrate magnetic forces of attraction &amp; repulsion</li><li>• Classify materials according to whether they are magnetic or not</li><li>• Rank magnets according to their strength</li></ul>			<b>English:</b> Explanation writing / poetic writing / recount writing <b>Levels 1 &amp; 2:</b> Forming questions; observations; jottings & note taking; explanations; compare & contrast; labelling diagrams <b>Level 3 &amp; 4:</b> investigations; explanation writing based on investigations; observations; jottings & note taking; explanations; compare & contrast <b>Oral language- All levels</b>	
<b>Brainstorm Ideas:</b> Post-it brainstorm, What do you know, sift information (relevant, irrelevant) What is a magnet? What objects will a magnet attract?				
<b>WALTS based on English – finding information</b> Ask questions (open, closed) that are relevant to the topic Use observational skills Label diagrams / create text boxes Find evidence in the text (picture)- finding information- proving it				

**Activities:**

*Brainstorming*

*Investigate brainstormed ideas/concepts*

*Science -Magnets & Magnetism Pg 83+*

- *Activity 2 - Seeing the Invisible*
- *Activity 3 - Magnetic Fields*
- *Investigation 2 - Which Pole is Which?*
- *Activity 4 - What's the Force?*
- *Activity 5 - What will Magnetic Forces Pass through?*
- *Activity 6 - Sort Me*
- *Activity 7 - Magnetic Separations*

**Vocab:**

Magnets; iron; materials; poles - north / south; repel; attract; force; opposite

**OTJ:**

Evaluation - video, photos in table (accompanied with student explanation) , or webcam showing each child carrying out an activity

- Demonstrating understanding
- Are they using the correct language/vocab

Example - here is some equipment - I want you to demonstrate the idea of repel and attract.

Show videos during parent science expo

## LEARNING ACTIVITIES AND EXPERIENCES

<div> <div>I</div> <div>Unistructural</div> </div> <div> <div>III</div> <div>Multistructural</div> </div>	<div> <div></div> <div>Relational</div> </div>	<div> <div></div> <div>Extended Abstract</div> </div>
<p><b><u>Bringing in ideas:</u></b>  <i>(Identify/Label/List/Define/Describe/Retell/Recall/Recite)</i></p>	<p><b><u>Linking ideas:</u></b> <i>(Sequence/Classify/Compare Contrast/Cause Effect/Analysis Part whole/Explain/Analogy/Question)</i></p>	<p><b><u>Putting linked ideas in another context:</u></b>  <i>(Predict/Hypothesise/Generalise/Imagine/Reflect/Evaluate/Create)</i></p>
<p>Thinking interventions that target bringing in ideas:</p>	<p>Thinking interventions that target linking ideas:</p>	<p>Thinking interventions that target putting linked ideas in another context:</p>
<p>ICT to enhance conditions for bringing in ideas:</p>	<p>ICT to enhance conditions for linking ideas:</p> <ul style="list-style-type: none"> <li></li> </ul>	<p>ICT to enhance conditions for putting linked ideas in another context:</p>